

WHAT IS CLAIMED IS:

1. An antibody which binds to ErbB3 protein and reduces heregulin-induced formation of an ErbB2-ErbB3 protein complex in a cell which expresses ErbB2 and ErbB3.
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2. The antibody of claim 1 which further increases the binding affinity of heregulin for ErbB3 protein.
3. The antibody of claim 1 which further reduces heregulin-induced ErbB2 activation in the cell.
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4. The antibody of claim 1 which is a monoclonal antibody.
5. The antibody of claim 1 which is humanized.
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6. The antibody of claim 1 which is human.
7. The antibody of claim 1 which is an antibody fragment.
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8. The antibody fragment of claim 8 which is a Fab.
9. The antibody of claim 1 which is labelled.
10. The antibody of claim 1 which is immobilized on a solid phase.
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11. An antibody which binds to ErbB3 protein and increases the binding affinity of heregulin for ErbB3 protein.
12. An antibody which binds to ErbB3 protein and reduces heregulin-induced ErbB2 activation in a cell which expresses ErbB2 and ErbB3.
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- P A T E N T
P R O C E S S
13. An antibody which binds to ErbB3 protein and reduces heregulin binding thereto.
14. The antibody of claim 13 which further reduces heregulin-induced ErbB2 activation in a cell which expresses ErbB2 and ErbB3.
- 5 15. The antibody of claim 1 which binds to the epitope bound by the 8B8 antibody.
16. The antibody of claim 1 which has the complementarity determining regions of the 8B8 antibody.
- 10 17. A composition comprising the antibody of claim 1 and a pharmaceutically acceptable carrier.
18. A cell line which produces the antibody of claim 1.
- 15 19. The cell line of claim 18 which is a hybridoma cell line producing the 8B8 antibody.
20. A method for determining the presence of ErbB3 protein comprising exposing a cell suspected of containing the ErbB3 protein to the antibody of claim 1 and determining binding of said antibody to the cell.
- 20 21. A kit comprising the antibody of claim 1 and instructions for using the antibody to detect the ErbB3 protein.

ADD
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